

Notice of Allowability	Application No.	Applicant(s)
	10/783,049	HOOLI ET AL.
	Examiner	Art Unit
	Nurul M. Matin	2611
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>06/04/2007</u> .		
2. X The allowed claim(s) is/are 1-48.		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5 D Nation of Informal D	akank Augliankian
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Informal Page 16. ☐ Interview Summary	• •
	Paper No./Mail Dat	e
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🗌 Examiner's Amendn	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's Stateme	nt of Reasons for Allowance
5. Diological Material	9. Other	
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DETAILED ACTION

1. This office action is in response to communication filed on 06/04/2007.

Claims 34-48 are newly added and claims 1-48 are now pending on this application.

2. Applicant's amendment overcomes the following objection/rejection of the last

Office Action:

a. Objection to the Specification for not includes the application number of

the provisional application.

b. Objection to the disclosure for informalities.

3. Applicant's arguments see remarks, filed 06/04/2007, with respect to claims 1-33

have been fully considered and are persuasive. The rejection of claims 1-33 has been

withdrawn.

Allowable Subject Matter

4. Claims 1-48 are allowable.

The following is an examiner's statement of reasons for allowance:

Claims 1-48 are allowed because the reference cited fail to teach, as applicant

has a code division, multiple access (CDMA) receiver having an input node coupled to a

plurality S of receive antennas that receive signals from a plurality N of transmit

antennas, comprising: J correlators outputting soft symbol decisions, where J=N times a

number of detected physical channels; N equalizers each having an input coupled to said input node and an output coupled to as many correlators as there are detected physical channels of the said J correlators; a channel estimator having an input coupled to said input node and N outputs representing a channel estimate for each of said transmit antennas; and a unit for computing coefficients for each of said N equalizers, said unit having a first input coupled to said input node, second inputs coupled to said N outputs of said channel estimator, and third inputs for receiving estimates of received chip energy per transmit antenna, said unit computing said coefficients so as to operate said equalizers for simultaneously suppressing inter-antenna interference and multiple user interference such that the suppression of the inter-antenna interference and the multiple user interference is balanced with respect to their deteriorating impact on symbol estimates.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nurul M. Matin whose telephone number is 571-270-1188. The examiner can normally be reached on mon-fri (7:30-5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nurul Matin Examiner

> MOHAMMED GHAYOUH SUPERVISORY PATENT EXAMINED